

Los Alamos Dynamics Summer School 2009 Lecture Series

The tutorials and lectures are open to all LANL staff and students. However, we have limited seating for these classes and seating in general must be reserved two weeks in advance (if you are interested in any of the lectures and/or tutorials in the first two weeks please let me [eunkefer@lanl.gov] know **asap**). If we have significant interest beyond our current seating capacity, we will attempt to have a second offering of the tutorial or lecture subject to the availability of the instructor/lecturer. Please note that staff members can use the tutorials and guest lectures to meet the continuing education credit requirements needed to maintain a professional engineer's license. We will issue certificates of attendance to staff for the purpose of documenting their attendance in order to verify that they have met the PE continuing education requirements. All tutorials and lectures will be held in Suite 100 (IMMS) in the Research Park Building.

To reserve a seat at any of the lectures or tutorials, please contact Kathie Womack (eunkefer@lanl.gov) with your name and which event you want to attend (including the date).

Week of June 8th

Tutorials:

Introduction to Instrumentation and Signal Processing, Gyuhae Park

June 10 & 12, 8-9:30AM

The Engineering Institute

Los Alamos National Laboratory

Introduction to Python, DJ Lusher & Matt Bement

June 12 (1- 2:30PM) & June 15 (3:30- 5:00PM)

Advanced Engineering Analysis

Lagrangian Codes

Los Alamos National Laboratory

Guest lecture:

Modeling and Testing of a Shell for the 60 Telsa Magnet, Curtt Ammerman

June 10, 1:30-3:00PM

Applied Engineering Technology

Los Alamos National Laboratory

Week of June 15th

Tutorials:

An Introduction to Structural Dynamics, Vibrations Lectures, Pete Avitabile

June 15-19, 8:00-9:30AM

Department of Mechanical Engineering

University of Massachusetts- Lowell

Introduction to Mini-Project and ABAQUS CAE, Pete Aitable & DJ Luscher

June 15, 10-11AM

Dept. of Mechanical Engineering, University of Massachusetts-Lowell

Lagrangian Codes, Los Alamos National Laboratory

Getting Started with the ABAQUS Finite Element Code, DJ Luscher

June 16, 3:30- 5:00PM

Advanced Engineering Analysis

Los Alamos National Laboratory

Guest lectures:

Fiber Optic Sensing, Mike Todd

June 17, 1:30- 3:30

Department of Structural Engineering

University of California- San Diego

Engineering Issues for Orthopedic Surgery, Dr. Michael Meneghini

June 18, 3:30- 5:00PM

St. Vincent Center for Joint Replacement

Week of June 22nd

Tutorial:

Rigid Body Dynamics Tutorials, Phil Cornwell

June 22- 24, 8:00- 10:00AM (The 24th ends at 9:30)

Department of Mechanical Engineering

University of Massachusetts- Lowell

Guest lectures:

Boeing Aerospace Application, Steven Griffin

June 23, 3:30- 5:00PM

Boeing Company

High Explosives Radio Telemetry System, Tom Petersen

June 25, 3:30- 5:00PM

Weapons Test Engineering Group

Los Alamos National Laboratory

Week of June 29th

Tutorial:

Introduction to Controls, Matt Bement

June 29 & 30, 8:00- 9:30AM

Lagrangian Codes

Los Alamos National Laboratory

Guest lectures:

Predictive Process Dynamics, Matt Bement

June 30, 3:30- 5:00PM

Lagrangian Codes

Los Alamos National Laboratory

Structural Health Monitoring, Chuck Farrar

July 2, 3:30- 5:00PM

Engineering Institute

Los Alamos National Laboratory

Week of July 6th

Tutorial:

Computational Structural Dynamics, DJ Luscher

July 6-9, 8:00- 9:30AM

Analysis and Prediction Group

Applied Engineering Technology

Los Alamos National Laboratory

Guest lectures:

Extended Regeneration Testing of the Tritium Waste Treatment System, Mark Bibeault

July 7, 3:30- 5:00PM

Los Alamos National Laboratory

Sports Equipment Dynamics, John Kosmatka

July 9, 3:30- 5:00PM

Department of Engineering

University of California, San Diego

Week of July 13th

Tutorial:

Wave Propagation (Introduction, NDE, Acoustics, Blast and Seismology), Anthony Puckett

July 13- 16, Monday- 8-10AM, Tues.- Thurs. 8:00-9:30AM

Advanced Engineering Analysis

Los Alamos National Laboratory

Guest lectures:

Aerospace Structural Dynamics, Nick Lieven

July 14, 3:30- 5:00PM

Department of Aerospace Engineering

University of Bristol

Air Force's Space Program, Brandon Arritt

July 16, 3:30-5:00PM

Space and Remote Sensing
Los Alamos National Laboratory

Week of July 20th

Tutorials:

Nonlinear Dynamics, Professor Doug Adams
July 20- 24, Monday 8-10AM, Tues.- Thurs. 8:00-9:30AM
Department of Mechanical Engineering
Purdue University

Model Validation, Francois Hemez
July 20, 22 & 27 (20 & 22th: 1:30- 3PM; 27th: 8:00- 9:30AM)
Verification
Los Alamos National Laboratory

Guest lectures:

Modal Analysis and FE modeling of Engineering Components, Gretchen Ellis
July 21, 3:30- 5:00PM
Applied Engineering Technology
Los Alamos National Laboratory

Acoustic Control of Rocket Payload, Kevin Farinholt
July 23, 3:30- 5:00PM
Engineering Institute
Los Alamos National Laboratory

Week of July 27th

Guest lecture:

Satellite Dynamics: Alexis and Forte, Tom Butler
July 28 & 30, 3:30- 5:00PM
Consultant to Los Alamos National Laboratory

*Additional tutorials and lectures will be added throughout the summer